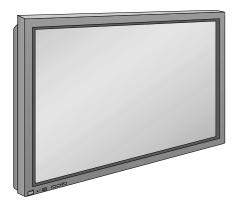
Panasonic[®]





High Definition Plasma Display Operating Instructions

TH-42PHW5
Model No. TH-50PHW5



Before connecting, operating or adjusting this product, please read these instructions completely. Please keep this manual for future reference.

English

Dear Panasonic Customer

Welcome to the Panasonic family of customers. We hope that you will have many years of enjoyment from your new High Definition Plasma Display.

To obtain maximum benefit from your set, please read these Instructions before making any adjustments, and retain them for future reference.

Retain your purchase receipt also, and note down the model number and serial number of your set in the space provided on the rear cover of these instructions.

Visit our Panasonic Web Site http://www.panasonic.co.jp/global/

Trademark Credits

- VGA is a trademark of International Business Machines Corporation.
- Macintosh is a registered trademark of Apple Computer, USA.
- S-VGA is a registered trademark of the Video Electronics Standard Association.
 Even if no special notation has been made of company or product trademarks, these trademarks have been fully respected.

Note:

Do not allow a still picture to be displayed for an extended period, as this can cause a permanent after-image to remain on the High Definition Plasma Display.

Examples of still pictures include logos, video games, computer images, teletext and images displayed in 4:3 mode.

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Important Safety Notice

WARNING: To prevent damage which may result in fire or shock hazard, do not expose this appliance to rain or moisture.

Do not place containers with water (flower vase, cups, cosmetics, etc.) above the set. (including on shelves above, etc.)

WARNING: 1) To prevent electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.

2) Do not remove the earthing pin on the power plug. This apparatus is equipped with a three pin earthing-type power plug. This plug will only fit an earthing-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact an electrician. Do not defeat the purpose of the earthing plug.

WARNING

This is a class A product. In a domestic environment this product may cause radio interference in which case you may be required to take adequate measures.

CAUTION

This appliance is intended for use in environments which are relatively free of electromagnetic fields. Using this appliance near sources of strong electromagnetic fields or where electrical noise may overlap with the input signals could cause the picture and sound to wobble or cause interference such as noise to appear. To avoid the possibility of harm to this appliance, keep it away from sources of strong electromagnetic fields.

To prevent electric shock, ensure the grounding pin on the AC cord power plug is securely connected.

Safety Precautions

WARNING

Setup

This Plasma Display is for use only with the following optional accessories. Use with any other type of optional accessories may cause instability which could result in the possibility of injury.

(All of the following accessories are manufactured by Matsushita Electric Industrial Co., Ltd.)

_	•	TY-SP42P5W-H (TH-42PHW5), TY-SP50P5W-H (TH-50PHW5)
•	Pedestal	TY-ST10-H
•	Wall stand	TY-ST42PW1
•	Mobile stand	TY-ST42PF3
•	Wall-hanging bracket (vertical)	TY-WK42PV1
•	Wall-hanging bracket (angled)	TY-WK42PR1
•	Ceiling unit	TY-CE42PS1

Always be sure to ask a qualified technician to carry out set-up.

Do not place the Plasma Display on sloped or unstable surfaces.

• The Plasma Display may fall off or tip over.

Do not place any objects on top of the Plasma Display.

If water is spills onto the Plasma Display or foreign objects get inside it, a short-circuit may occur which could result
in fire or electric shock. If any foreign objects get inside the Plasma Display, please consult your local Panasonic
dealer.

If using the pedestal (optional accessory), leave a space of at least 10 cm at the top, left and right, at least 6 cm at the bottom, and at least 7 cm at the rear. If using some other setting-up method, leave a space of at least 10 cm at the top, bottom, left and right, and at least 1.9 cm at the rear.

Avoid installing this product near electronic equipment that is easy to receive electromagnetic waves.

• It may cause interference in image, sound, etc. In particular, keep video equipment away from this product.

When using the Plasma Display

The Plasma Display is designed to operate on 220 - 240 V AC, $50/60\ Hz$.

Do not cover the ventilation holes.

• Doing so may cause the Plasma Display to overheat, which can cause fire or damage to the Plasma Display.

Do not stick any foreign objects into the Plasma Display.

Do not insert any metal or flammable objects into the ventilations holes or drop them onto the Plasma Display, as
doing so can cause fire or electric shock.

Do not remove the cover or modify it in any way.

 High voltages which can cause severe electric shocks are present inside the Plasma Display. For any inspection, adjustment and repair work, please contact your local Panasonic dealer.

Securely insert the power cord plug as far as it will go.

• If the plug is not fully inserted, heat may be generated which could cause fire. If the plug is damaged or the wall socket plate is loose, they shall not be used.

Do not handle the power cord plug with wet hands.

Doing so may cause electric shocks.

Do not do anything that may damage the power cable. When disconnecting the power cable, pull on the plug body, not the cable.

• Do not damage the cable, make any modifications to it, place heavy objects on top of it, heat it, place it near any hot objects, twist it, bend it excessively or pull it. To do so may cause fire and electric shock. If the power cable is damaged, have it repaired at your local Panasonic dealer.

If the Plasma Display is not going to be used for any prolonged length of time, unplug the power cord plug from the wall outlet.

If problems occur during use

If a problem occurs (such as no picture or no sound), or if smoke or an abnormal odour starts to come out from the Plasma Display, immediately unplug the power cord plug from the wall outlet.

• If you continue to use the Plasma Display in this condition, fire or electric shock could result. After checking that the smoke has stopped, contact your local Panasonic dealer so that the necessary repairs can be made. Repairing the Plasma Display yourself is extremely dangerous, and shall never be done.

If water or foreign objects get inside the Plasma Display, if the Plasma Display is dropped, or if the cabinet becomes damages, disconnect the power cord plug immediately.

 A short circuit may occur, which could cause fire. Contact your local Panasonic dealer for any repairs that need to be made.



When using the Plasma Display

Do not bring your hands, face or objects close to the ventilation holes of the Plasma Display.

• Heated air comes out from the ventilation holes at the top of Plasma Display will be hot. Do not bring your hands or face, or objects which cannot withstand heat, close to this port, otherwise burns or deformation could result.

Be sure to disconnect all cables before moving the Plasma Display.

• If the Plasma Display is moved while some of the cables are still connected, the cables may become damaged, and fire or electric shock could result.

Disconnect the power cord plug from the wall socket as a safety precaution before carrying out any cleaning.

• Electric shocks can result if this is not done.

Clean the power cable regularly to prevent it becoming dusty.

• If dust built up on the power cord plug, the resultant humidity can damage the insulation, which could result in fire. Pull the power cord plug out from the wall outlet and wipe the mains lead with a dry cloth.

Cleaning and maintenance

The front of the display panel has been specially treated. Wipe the panel surface gently using only a cleaning cloth or a soft, lint-free cloth.

- If the surface is particularly dirty, wipe with a soft, lint-free cloth which has been soaked in pure water or water to which a small amount of neutral detergent has been added, and then wipe it evenly with a dry cloth of the same type until the surface is dry.
- Do not scratch or hit the surface of the panel with fingernails or other hard objects, otherwise the surface may become damaged. Furthermore, avoid contact with volatile substances such as insect sprays, solvents and thinner, otherwise the quality of the surface may be adversely affected.

If the cabinet becomes dirty, wipe it with a soft, dry cloth.

- If the cabinet is particularly dirty, soak the cloth in water to which a small amount of neutral detergent has been added and then wring the cloth dry. Use this cloth to wipe the cabinet, and then wipe it dry with a dry cloth.
- Do not allow any detergent to come into direct contact with the surface of the Plasma Display. If water droplets get inside the unit, operating problems may result.
- Avoid contact with volatile substances such as insect sprays, solvents and thinner, otherwise the quality of the
 cabinet surface may be adversely affected or the coating may peel off. Furthermore, do not leave it for long periods
 in contact with articles made from rubber or PVC.

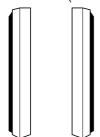
Accessories

Accessories Supply

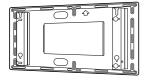
Check that you have the accessories and items shown Operating Instruction book Remote Control Batteries for the **Guarantee Card** Transmitter Remote Control EUR646525 Transmitter **Panasonic** (2 × R6 Size) AC cord Fixing bands Ferrite core Ferrite core TMME187 × 2 (small size) (large size) J0KF00000018 × 1 J0KG00000054 × 2

Optional Accessories

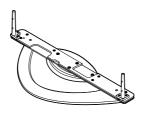
Speakers
 TY-SP42P5W-H (TH-42PHW5)
 TY-SP50P5W-H (TH-50PHW5)



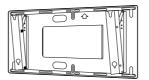
 Wall-hanging bracket (vertical) TY-WK42PV1



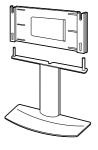
Pedestal TY-ST10-H



 Wall-hanging bracket (angled) TY-WK42PR1



Wall stand TY-ST42PW1



Ceiling unit TY-CE42PS1



Mobile stand TY-ST42PF3



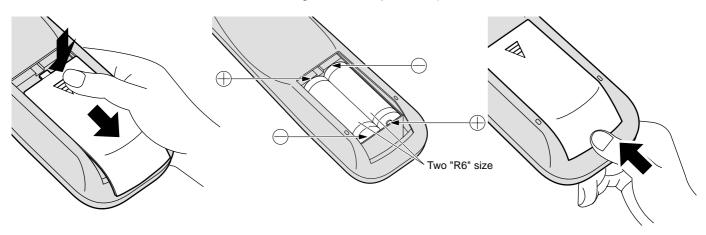
For assembling

Full instructions are supplied with each optional accessory for use with this Plasma Display.

Remote Control Batteries

Requires two R6 batteries.

- Turn the transmitter face down. Press and slide off the battery cover.
- Install the batteries as shown in the battery compartment.
 (Polarity + or – must match the markings in the compartment.)
- 3. Replace the cover and slide in reverse until the lock snaps.



Helpful Hint:

For frequent remote control users, replace old batteries with Alkaline batteries for longer life.

⚠ Precaution on battery use

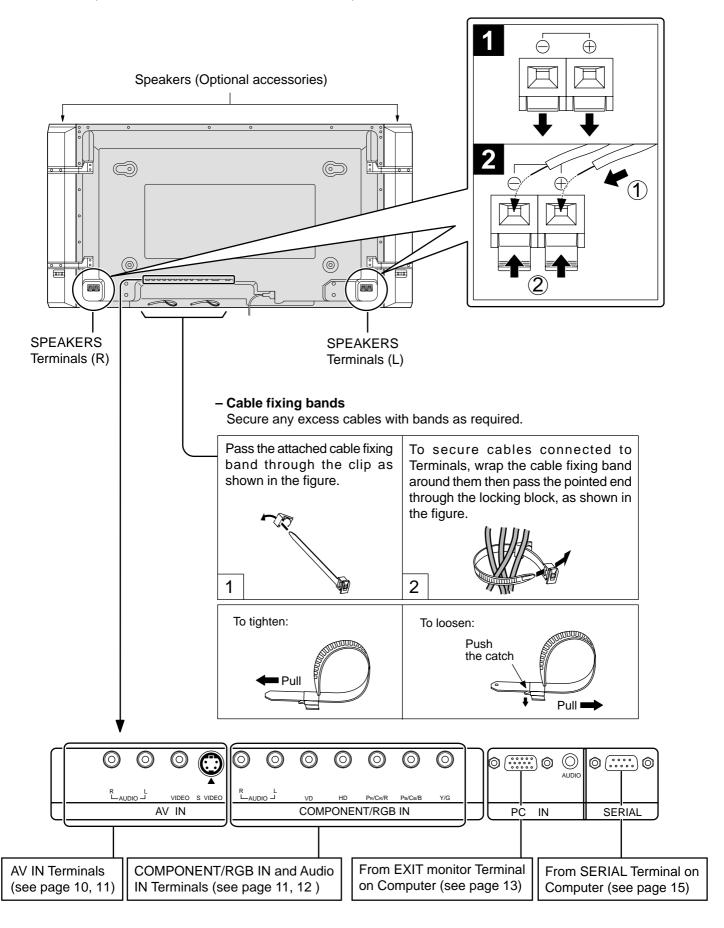
Incorrect installation can cause battery leakage and corrosion that will damage the remote control transmitter.

Observe the following precaution:

- 1. Batteries shall always be replaced as a pair. Always use new batteries when replacing the old set.
- 2. Do not combine a used battery with a new one.
- 3. Do not mix battery types (example: "Zinc Carbon" with "Alkaline").
- 4. Do not attempt to charge, short-circuit, disassemble, heat or burn used batteries.
- 5. Battery replacement is necessary when remote control acts sporadically or stops operating the Plasma Display

Connections

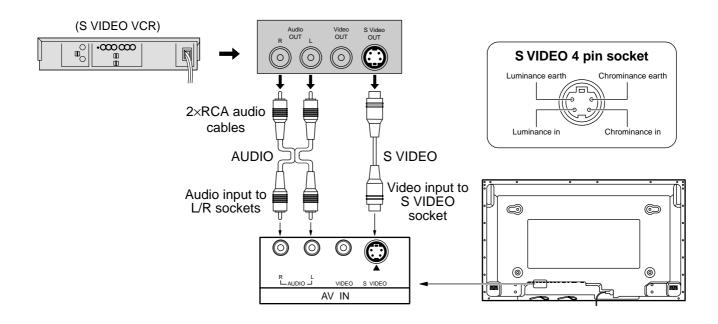
When connecting the speakers, be sure to use only the optional accessory speakers. Refer to the speaker's Installation Manual for details on speaker installation.



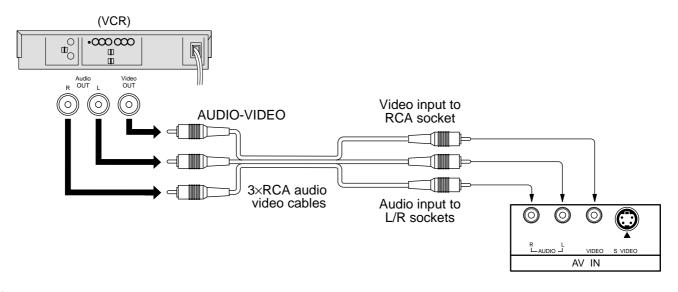
AV Input Terminals connection

Connect the signal source equipment.

(Example) When connecting an S VIDEO VCR.



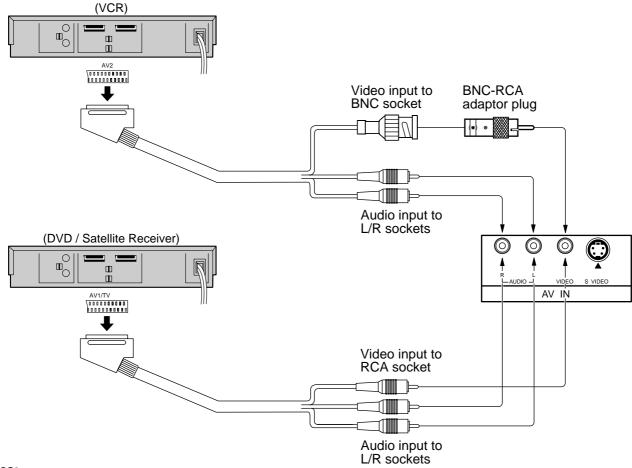
(Example) When connecting 3×RCA audio video cables.



Note:

Additional equipment and cables shown are not supplied with this set.

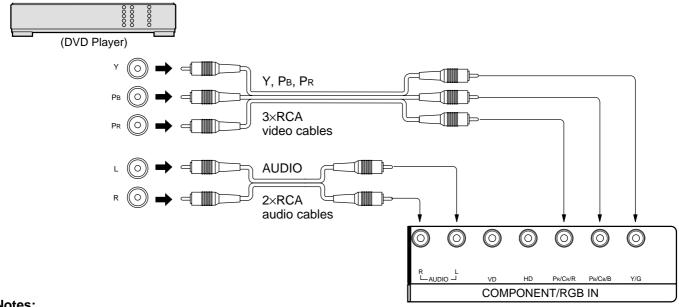
(Example) When connecting 21 pin scart cables.



- Notes:
- (1) Additional equipment, cables and an adaptor plug shown are not supplied with this set.
- (2) 21 pin connectors and 21 pin scart plugs are connectors used in Europe.

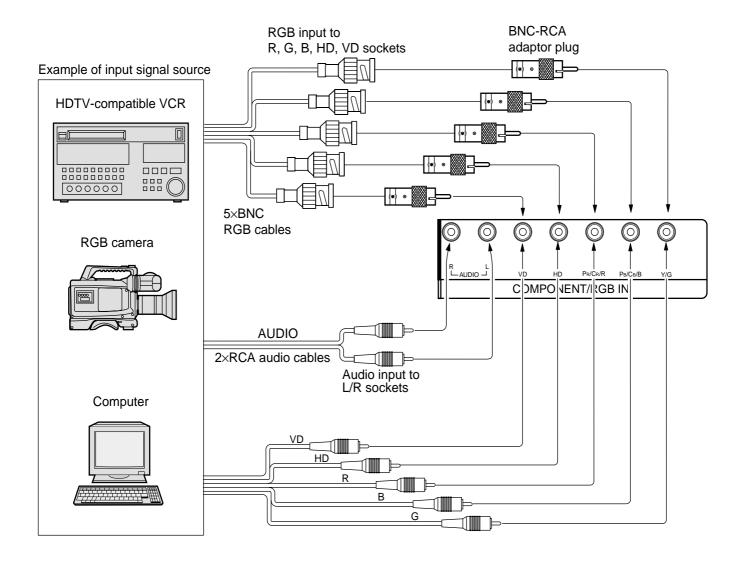
Component/RGB Input connection

Component signals (Y, PB, PR) connection



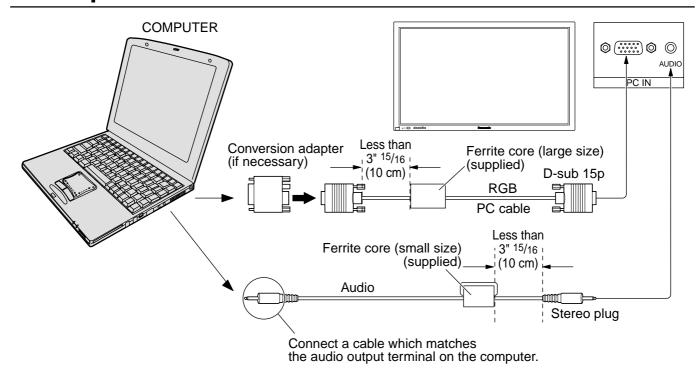
- Notes:
- (1) Change the "Component/RGB-in" setting in the "Setup" menu to "Component". (see page 32)
- (2) Additional equipment and cables shown are not supplied with this set.

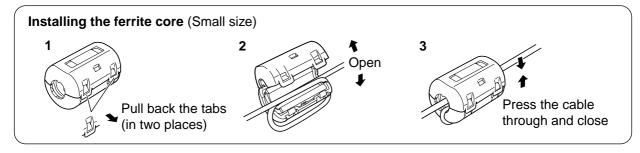
RGB signal (R, G, B, HD, VD) connection

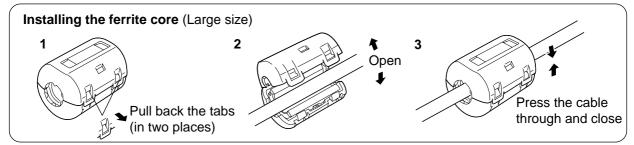


- (1) Change the "Component/RGB-in" setting in the "Setup" menu to "RGB". (see page 32)
- (2) Additional equipment, cables and adaptor plugs shown are not supplied with this set.

PC Input Terminals connection



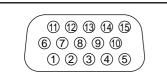




- (1) Computer signals which can be input are those with a horizontal scanning frequency of 15.6 to 110 kHz and vertical scanning frequency of 48 to 120 Hz. (However, the image will not be displayed properly if the signals exceed 1,200 lines.)
- (2) The display resolution is a maximum of 768×768 dots (TH-42PHW5) / 1,024 \times 768 dots (TH-50PHW5) when the aspect mode is set to "4:3", and $1,024 \times 768$ dots (TH-42PHW5) / $1,366 \times 768$ dots (TH-50PHW5) when the aspect mode is set to "16:9". If the display resolution exceeds these maximums, it may not be possible to show fine detail with sufficient clarity.
- (3) The PC input terminals are DDC1/2B-compatible. If the computer being connected is not DDC1/2B-compatible, you will need to make setting changes to the computer at the time of connection.
- (4) Some PC models cannot be connected to the set.
- (5) There is no need to use an adapter for computers with DOS/V compatible D-sub 15P terminal.
- (6) The computer shown in the illustration is for example purposes only.
- (7) Additional equipment and cables shown are not supplied with this set.
- (8) Do not set the horizontal and vertical scanning frequencies for PC signals which are above or below the specified frequency range.

Connections

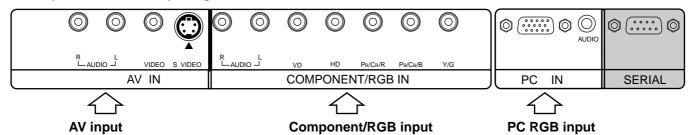
Signal Names for D-sub 15P Connector



Pin Layout for PC Input Terminal

Pin No.	Signal Name	Pin No.	Signal Name	Pin No.	Signal Name
1	R	6	GND (Ground)	11)	GND (Ground)
2	G	7	GND (Ground)	12	SDA
3	В	8	GND (Ground)	13	HD/SYNC
4	GND (Ground)	9	NC (not connected)	14	VD
(5)	GND (Ground)	10	GND (Ground)	15	SCL

AV/Component/RGB/PC input signals



AV input

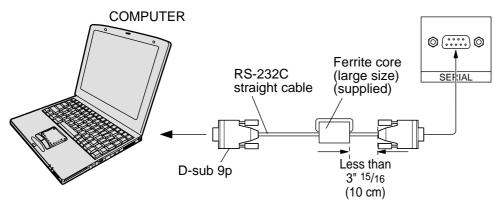
	signal name	horizontal frequency(kHz)	vertical frequency(Hz)
1	NTSC	15.734	59.95
2	PAL	15.625	50
3	PAL60	15.734	59.95
4	SECAM	15.625	50
5	Modified NTSC	15.734	59.95

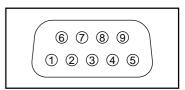
Component/RGB/PC input

	signal name	horizontal frequency(kHz)	vertical frequency(Hz)	Component	RGB	РС
1	525 (480) /60i	15.734	59.94	*	*	*
2	625 (575) /50i	15.625	50	*	*	*
3	525 (480) /60p	31.468	59.94	*	*	
4	625 (575) /50p	31.25	50	*	*	*
5	750 (720) /60p	45	60	*	*	*
6	1,125 (1,080) /60i	33.75	60	*	*	*
7	1,125 (1,080) /50i	28.125	50	*	*	*
8	1,125 (1,080) /24p	27	24	*	*	*
9	1,125 (1,080) /24sF	27	48	*	*	*
10	640 × 400 @70	31.5	70		*	*
11	640 × 480 @60	31.5	59.94		*	*
12	Macintosh13" (640 × 480)	35	67		*	*
13	640 × 480 @75	37.5	75		*	*
14	852 × 480 @60	31.7	60		*	*
15	800 × 600 @60	37.9	60		*	*
16	800 × 600 @75	46.9	75		*	*
17	800 × 600 @85	53.7	85		*	*
18	Macintosh16" (832 × 624)	49.7	75		*	*
19	1,024 × 768 @60	48.4	60		*	*
20	1,024 × 768 @ 70	56.5	70		*	*
21	1,024 × 768 @75	60	75		*	*
22	1,024 × 768 @85	68.7	85		*	*
23	Macintosh21" (1,152 × 870)	68.7	75		*	*
24	1,280 × 1,024 @60	64	60		*	*
25	1,280 × 1,024 @75	80	75		*	*
26	1,280 × 1,024 @85	91.1	85		*	*
27	1,600 × 1,200 @60	75	60		*	*

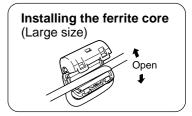
SERIAL Terminals connection

The SERIAL terminal is used when the Plasma Display is controlled by a computer.





Pin layout for RS-232C



Notes:

- (1) Use the RS-232C cable to connect the computer to the Plasma Display.
- (2) The computer shown is for example purposes only.
- (3) Additional equipment and cables shown are not supplied with this set.

The SERIAL terminal conforms to the RS-232C interface specification, so that the Plasma Display can be controlled by a computer which is connected to this terminal.

The computer will require software which allows the sending and receiving of control data which satisfies the conditions given below. Use a computer application such as programming language software. Refer to the documentation for the computer application for details.

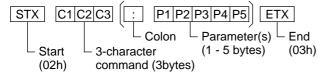
Communication parameters

Signal level	RS-232C compliant
Synchronization method	Asynchronous
Baud rate	9600 bps
Parity	None
Character length	8 bits
Stop bit	1 bit
Flow control	_

RS-232C Conversion cable		
D-sub 9-pin female	Details	
2	RXD	
3	TXD	
5	GND	
4 6	Non use	
⑦ ⑧	Shorted	
1.9	NC	

Basic format for control data

The transmission of control data from the computer starts with a STX signal, followed by the command, the parameters, and lastly an ETX signal in that order. If there are no parameters, then the parameter signal does not need to be sent.



Notes:

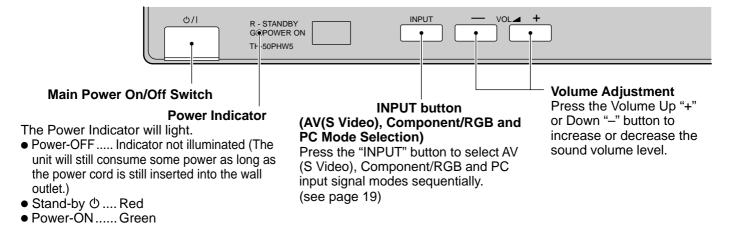
- If multiple commands are transmitted, be sure to wait for the response for the first command to come from this unit before sending the next command.
- (2) If an incorrect command is sent by mistake, this unit will send an "ER401" command back to the computer.

Command

Command	Parameter	Control details
PON	None	Power ON
POF	None	Power OFF
AVL	**	Volume 00 - 63
AMT	0	Audio mute OFF
AIVIT	1	Audio mute ON
IIS	None	Input select (toggle)
	VID	AV Mode
	YP1	Component / RGB mode (processed as a
		Y/PB/PR or RGB signals as set by this unit)
	RG1	PC Mode
DAM	None	Screen mode select (toggle)
	NORM	4:3
	ZOOM	Zoom
	FULL	16:9
	JUST	Just
	SELF	Panasonic Auto

With the power off, this display responds to PON command only.

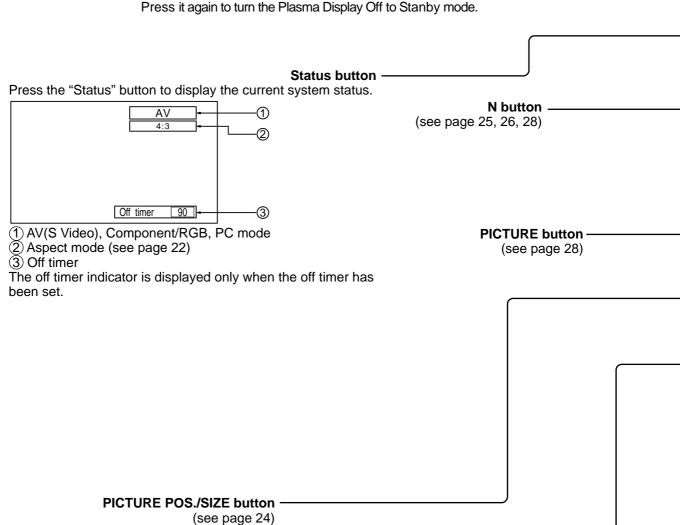
Basic Controls



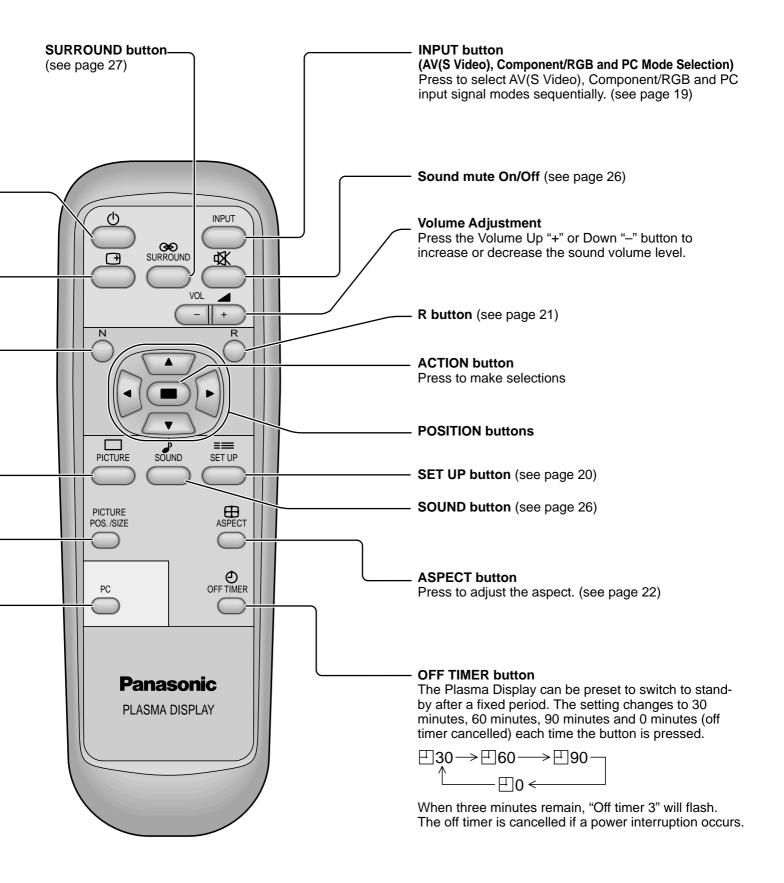
Stand-by (ON/OFF) button _

The Plasma Display must first be plugged into the wall outlet and turned on at the power switch (see page 18).

Press this button to turn the Plasma Display On, from Stanby mode.



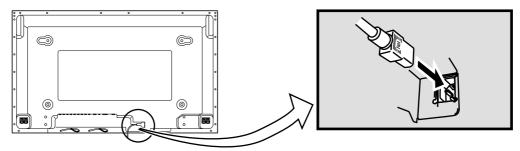
Press the "PC" mode selection button to select the PC mode. This button is used to switch directly to PC mode.



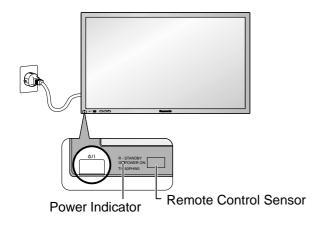
Power On/Off and input signal selection

AC cord connection

Connecting the AC cord plug to the Plasma Display.



Power On/Off



Connecting the plug to the Wall Outlet Note:

Main plug types vary between countries. The power plug shown at left may, therefore, not be the type fitted to your set.

Press the Power switch on the Plasma Display to turn the set on Power-On.

Power Indicator: Green

Example: The screen below is displayed for a while after the Plasma Display is turned on. (setting condition is an example.)

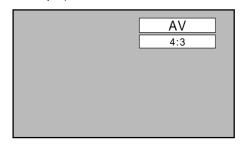
When the Power is turned on for the first time, the Language selection screen is displayed.

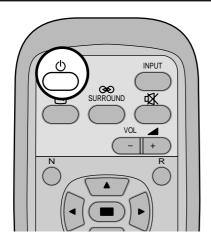
From the second time on, language selection can be done from the setup menu. (see page 19)

Select the desired language using the ▲ and ▼ keys and press the ACTION ■ button.



From the second time on, the below screen is displayed for a while (setting condition is an example).







Press the () button on the remote control to turn the Plasma Display off.

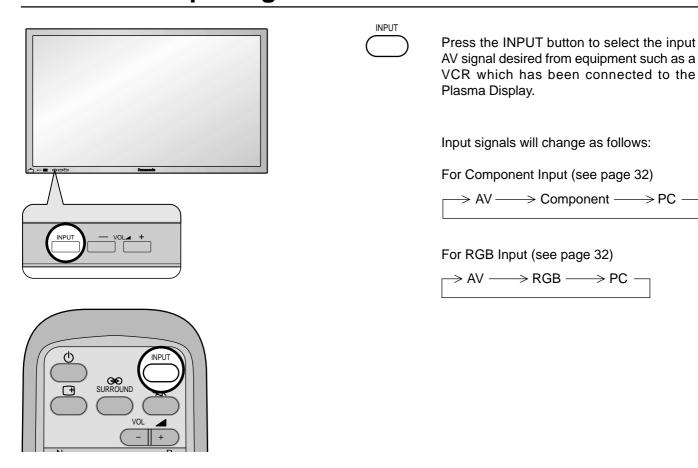
Power Indicator: Red (standby)

Press the \bigcirc button on the remote control to turn the Plasma Display on.

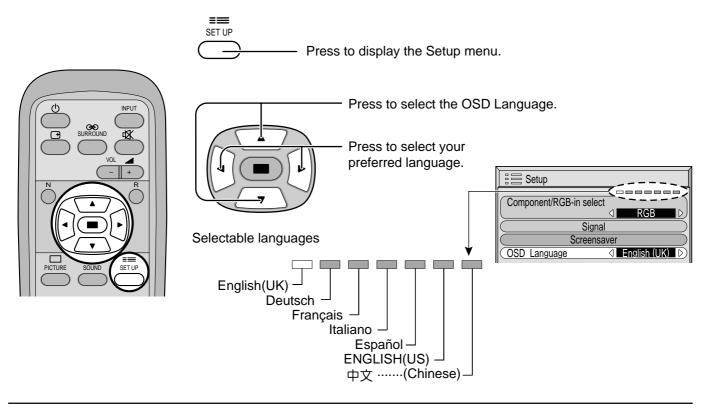
Power Indicator: Green

Turn the power to the Plasma Display set off by pressing the obswitch on the Plasma Display, when the Plasma Display is on or in standby mode.

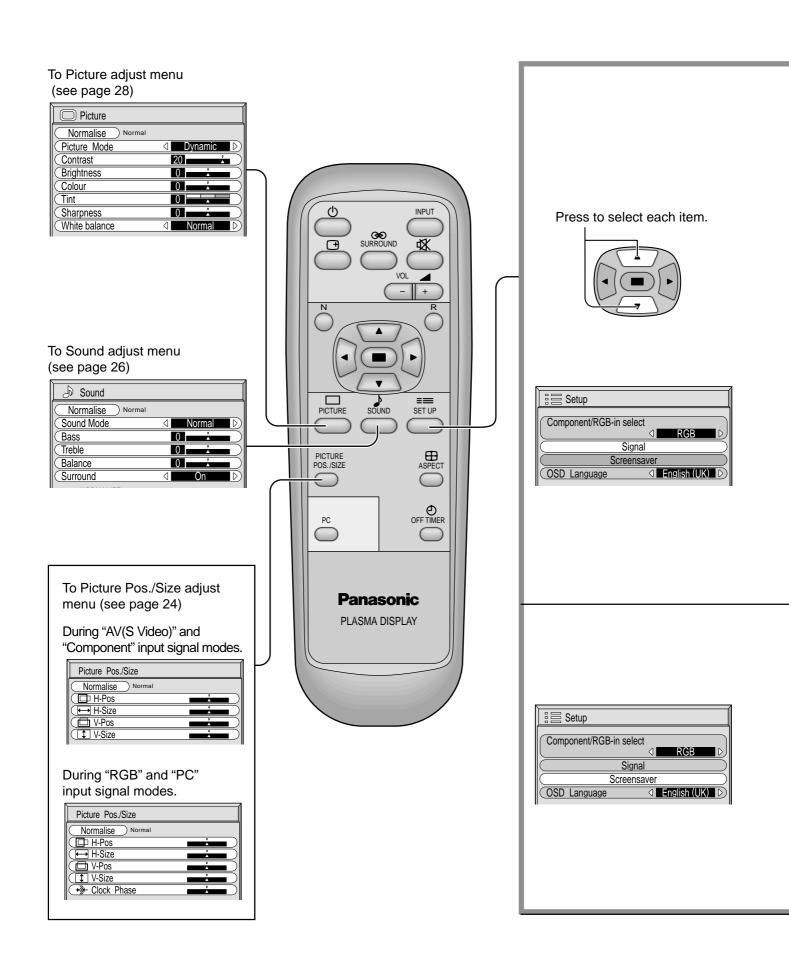
Select the input signal

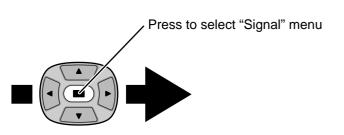


Selecting the On-Screen Menu Language



On-Screen Menu Display from Remote Control

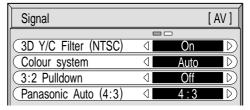






Press the R buttun to return to "Setup" menu.

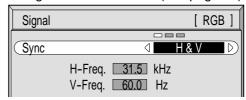
To Signal screen for AV (see page 32, 33)



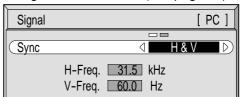
To Signal screen for Component (see page 33)



To Signal screen for RGB (see page 34)

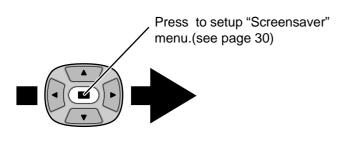


To Signal screen for PC (see page 34)



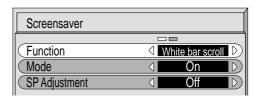
Note:

"Signal" setup menu displays different setting condition for each input signals. (see page 19)



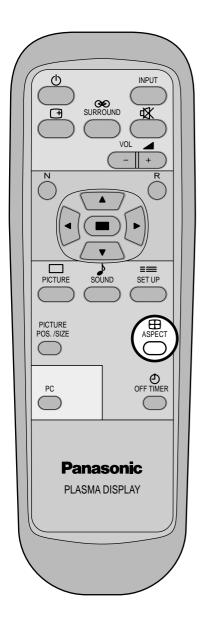


Press the R buttun to return to "Setup" menu.



ASPECT Controls

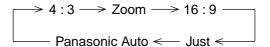
The Plasma Display will allow you to enjoy viewing the picture at its maximum size, including wide screen cinema format picture.





ASPECT button

The aspect mode changes each time the ASPECT button is pressed.

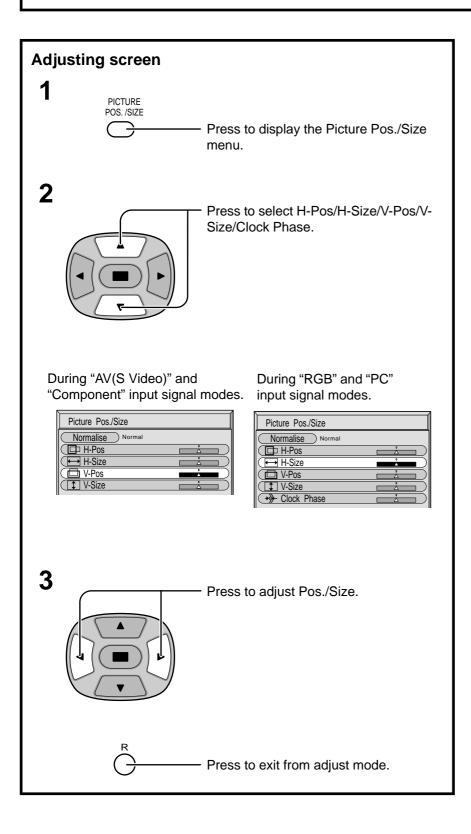


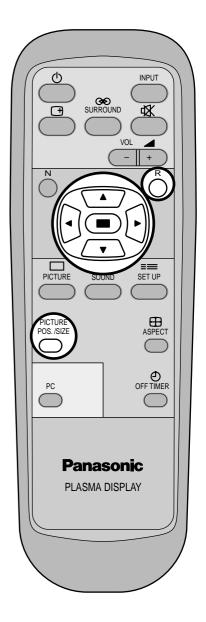
- (1) During RGB and PC input signal modes, the mode switches between "4:3", "Zoom" and "16:9" only.
- (2) For a 1,125i (1,080i), 750p (720p) signal input during "Component" input signal mode, the mode is set to "16:9" mode, and switching is not possible.
 - For a 525i (480i), 625i (575i), 525p (480p) and 625p (575p) signal input during "Component" input signal mode, "Panasonic Auto" can not be selected.
- (3) The aspect mode is memorized separately for each input terminal (AV(S Video), Component, RGB and PC).

Mode	Picture	Explanation
4:3	4:3	4:3 will display a 4:3 picture at its standard 4:3 size.
Zoom	3 → Zoom 9	Zoom mode magnifies the central section of the picture.
16:9	3 → 16 16:9 9	16:9 will display the picture at its maximum size but with sight elongation.
Just	3 → 16 Just 9	Just mode will display a 4:3 picture at its maximum size but with aspect correction applied to the center of the screen so that elongation is only apparent at the left and right edges of the screen. The size of the picture will depend on the original signal.
Panasonic Auto	For an elongated image The parameter For a 4:3 image	The display will automatically become enlarged (depending on the picture source), allowing you to view the picture at its maximum size. Note: Panasonic Auto mode is designed to automatically adjust the aspect ratio to handle a mix of 16:9 and 4:3 program material. Certain 4:3 program material, such as stock market data screens, may occasionally cause the image size to change unexpectedly. When viewing such programs, it is recommended that the ASPECT be set to 4:3.

- (1) Do not allow 4:3 mode to be displayed for an extended period, as this can cause a permanent after-image to remain on the Plasma Display Panel.
- (2) The S Video terminal on this set can detect specially encoded signals that are compatible with a wide screen monitor. When a full image from the S Video terminal of specially encoded video is detected by the set, the screen size is automatically set to 16:9 mode.

Adjusting Picture Pos./Size





- (1) Adjustment details are memorized separately for different input signal formats (Adjustments for component signals are memorized for 525i (480i), 625i (575i), 525p (480p), 1,125i (1,080i) and 625p (575p), 750p (720p) each, and RGB/PC signals are memorized for each frequency.)
- (2) If a "Cue" or "Rew" signal from a VCR or DVD player is received, the picture position will shift up or down. This picture position movement cannot be controlled by the Picture Pos./Size function.

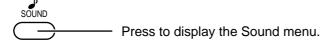
	When the Position Left "◄" button is pressed.	When the Position Right "▶" button is pressed.
H-Pos		
	When the Position Left "◄" button is pressed.	When the Position Right "▶" button is pressed.
H-Size	0 0 -	-
	When the Position Left "◄" button is pressed.	When the Position Right "▶" button is pressed.
V-Pos		O T
	When the Position Left "◄" button is pressed.	When the Position Right "▶" button is pressed.
V-Size		1
Clock Phase (RGB/PC in Mode)	Flickering and distortion can be eliminated by to carry out adjustment.	using the Position Left "◄" or Right "▶" button

- 'g'- Helpful Hint (o / Normalise Normalisation)

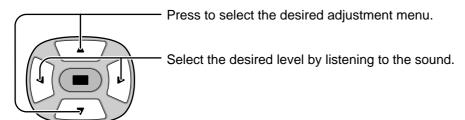
While the Picture Pos./Size display is active, if either the N button on the remote control is pressed at any time or the (ACTION button) is pressed during "Normalise", then all adjustment values are returned to the factory settings.

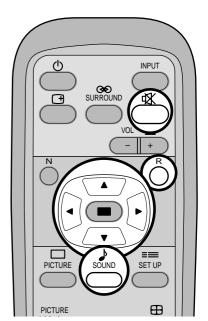
Sound Adjustment

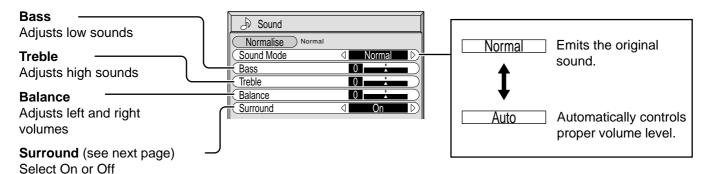
1



2 Select to adjust each item.







To end adjustments



Note:

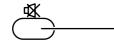
Press the SURROUND button to directly turn the surround effect On and Off. (see next page)
Bass, Treble and Surround settings are memorized separately for each Sound mode. (Normal, Auto)

- Helpful Hint (Normalise Normalisation)

While the "Sound" menu is displayed, if either the N button on the remote control is pressed at any time or the (ACTION button) is pressed during "Normalise", then all adjustment values are returned to the factory settings.

Mute

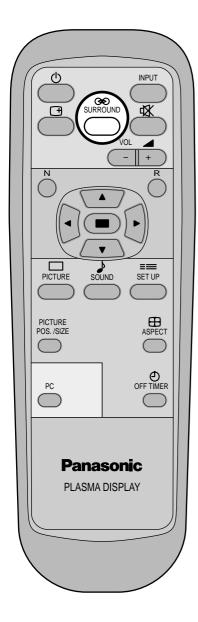
Useful when answering the phone or receiving unexpected visitors.



Press this button to mute the sound.

Press again to reactivate sound. Sound is also reactivated when power is turned off or volume level is changed.

Surround Controls



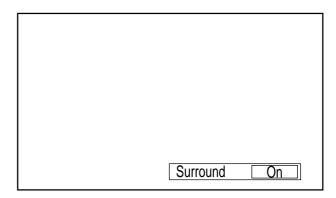


SURROUND Button

The benefits of surround sound are enormous. You can be completely enveloped in sound; just as if you were at a concert hall or cinema.

The surround setting switches on and off each time the SURROUND button is pressed.

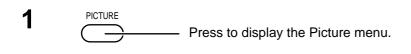




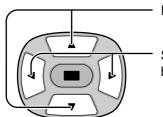
Note:

The surround settings are memorized separately for each Sound mode. (Normal, Auto)

Picture Adjustments

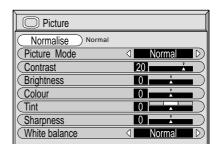


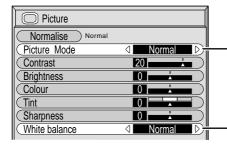
2 Select to adjust each item.



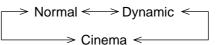
- Press to select the menu to adjust.

Select the desired level by looking at the picture behind the menu.





Press the left ◀ or right ▶ button to switch between modes.



Normal

For viewing in standard (evening lighting) environments.

This menu selects the normal levels of Brightness and Contrast.

Dynamic

For viewing in brighter environments.

This menu selects higher than normal levels of Brightness and Contrast.

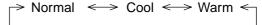
Cinema

Ideal for movies.

Note:

If you would like to change the picture and colour of the selected Picture menu to something else, adjust using the items in the Picture menu. (see next page)

Press the left ◀ or right ▶ button to switch between modes.





While the "Picture" menu is displayed, if either the N button on the remote control is pressed at any time or the (ACTION button) is pressed during "Normalise", then all adjustment values are returned to the factory settings.

Item	Ef	fect	Adjustments
Contrast	Less	More	Selects the proper brightness and density for the room.
Brightness	Darker	Brighter	Adjusts for easier viewing of dark pictures such as night scenes and black hair.
Colour	Less	More	Adjusts colour saturation.
Tint (NTSC only)	Reddish	Greenish	Adjust for nice skin colour.
Sharpness	Less	More	Adjusts picture sharpness.

Notes:

- (1) "Colour" and "Tint" settings cannot be adjusted for "RGB" and "PC" input signal modes.
- (2) You can change the level of each Function (Contrast, Brightness, Colour, Tint, Sharpness) for each Picture Menu.
- (3) The setting details for normal, dynamic and cinema respectively are memorized separately for each input mode (AV(S Video), Component, RGB and PC).
- (4) The "Tint" setting can be adjusted for NTSC signal only during "AV (S Video)" input signal.

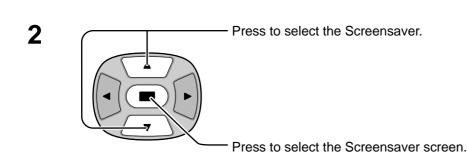
Note:

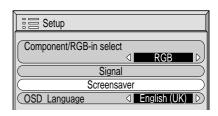
In PICTURE, there is not a noticeable change even when contrast is increased with a bright picture or reduced with a dark picture.

Screensaver (For preventing after-images)

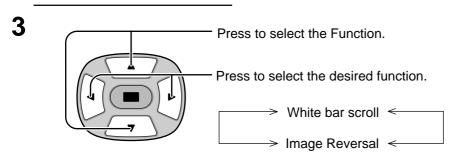
Do not display a still picture, especially in 4:3 mode, for any length of time. If the display must remain on, a Screensaver should be used.

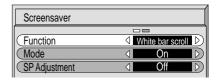






Reversal / Scroll selection

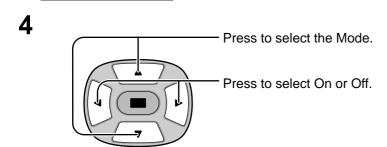


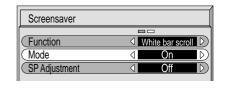


White bar scroll : The white bar will scroll from left to right.

Image Reversal: Negative image will be displayed on the screen.

On / Off selection





If the mode is at On, the menu screen will disappear and the Screensaver will be activated.

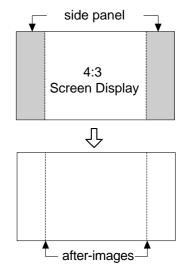
To stop the Screensaver under On, press the \bigcap^{\aleph} button.

Side Panel Adjustment

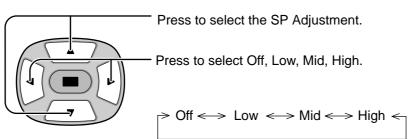
Do not display a picture in 4:3 mode for an extended period, as this can cause an after-image to remain on the side panels either side of the display field.

To prevent the appearance of such an after-image, illuminate the side panels.

To display the Screensaver screen.
(Refer to the previous page, operation guide steps 1 and 2)



2





Press to exit from Screensaver.

- Setting the side panel to High mode for an extended period may result in occurrence of after-images.
- The side panels may flash (alternate black/white) depending on the picture being shown on the screen. In such an occurrence, use the Cinema mode.

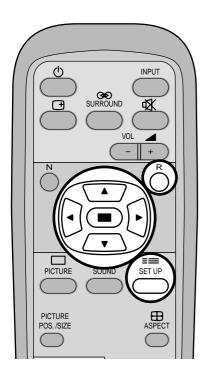
Setup for input signals

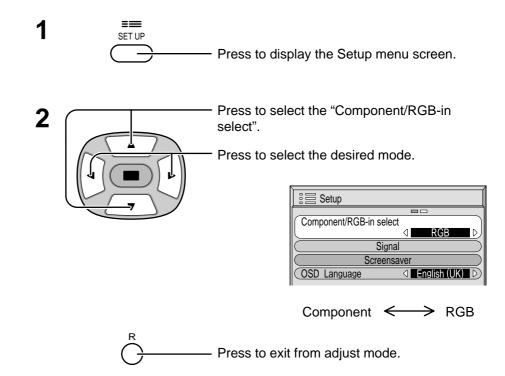
Component/RGB-in select

Select to match the signals from the source connected to the Componen/RGB input terminals.

Y, PB, PR signals ⇒ "Component"

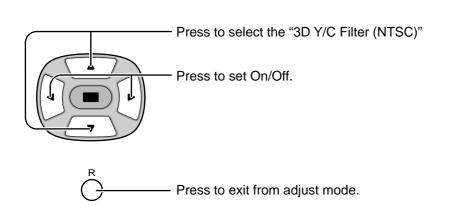
R, G, B, HD, VD signals ⇒ "RGB"

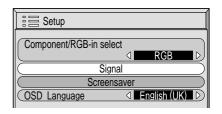




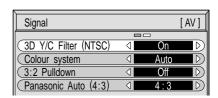
3D Y/C Filter – For NTSC AV images

Select "Signal" from the "Setup" menu during AV(S Video) input signal mode. ("Signal [AV]" menu is displayed.)





Press (ACTION) button

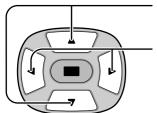


Note:

When On, this setting only affects NTSC input signals.

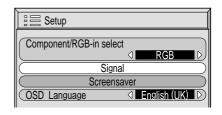
Colour system / Panasonic Auto

Select Signal from the "Setup" menu during AV(S Video) input signal mode. ("Signal [AV]" menu is displayed.)



Press to select the "Colour system" or "Panasonic Auto".

Press to select each functions.



Press (ACTION) button

If the picture image becomes unstable: With the system set on Auto, under conditi

With the system set on Auto, under conditions of low level or noisy input signals the image may in rare cases become unstable. Should this occur, set the system to match the format of the input signal.

Signal			[AV]
		_	
3D Y/C Filter (NTSC)	4	On	
Colour system	4	Auto	
3:2 Pulldown	4	Off	
Panasonic Auto (4:3)	4	4:3	

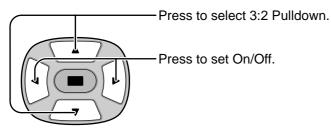
Mode	Function
Colour system	Set the colour system to match the input signal. If set to "Auto", the colour system is determined automatically. > Auto <> PAL <> SECAM <> M.NTSC << NTSC <
Panasonic Auto (4:3)	Set to "4: 3" to view 4:3 images in an unchanged format when Panasonic Auto is selected. If you would like to view 4:3 images in "Just" format, set to "Just".

3:2 Pulldown

When on, the display attempts to reproduce a more natural interpretation of sources such as movie pictures, which are recorded at 24 frames per second.

If the picture is not stable, turn the setting to off.

Select "Signal" from the "Setup" menu during AV(S Video) or Component input signal mode. ("Signal [AV]" menu is displayed.)



Component/RGB-in select Signal Screensaver OSD Language Setup RGB RGB RGB RGB RGB Figlish (UK)

Press (ACTION) button

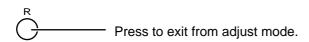
Signal [AV] 3D Y/C Filter (NTSC) 4 On D Colour system 4 Auto D 3:2 Pulldown 4 Off D Panasonic Auto (4:3) 4 4:3 D



Note:

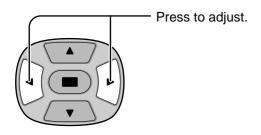
When On, this setting only affects the following signal input:

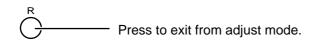
- NTSC signal input during "AV(S Video)" input signal mode.
- 525i(480i) signal input during "Component" input signal mode.

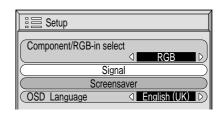


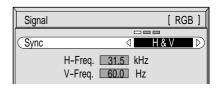
Sync

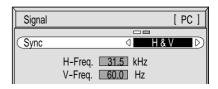
Select Signal from the "Setup" menu during RGB or PC input signal mode.











Setting RGB sync signal:

Confirm that the input is set to RGB input (this setting is valid only for RGB input).

H & V: The H and V sync signals are input from the HD/VD connector.

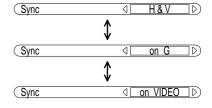
on G: Uses a synchronized signal on the Video G signal, which is input

from the G connector.

on VIDEO: Compatible with the scart plug (Europe)

The composite video signal input from the VIDEO input terminal is

used by dividing the sync signals.

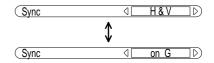


Setting PC sync signal:

Confirm that the input is set to PC input (this setting is valid only for PC input).

H & V: The H and V sync signals are input from the HD/VD connector.

on G: Uses a synchronized signal on the Video G signal, which is input from the G connector.



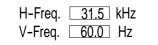
H-Freq. (kHz)/V-Freq. (Hz)

Displays the H (Horizontal)/V (Vertical) frequencies.

This display is valid only for RGB input and PC input.

Display range:

Horizontal 15.6 - 110 kHz Vertical 48 - 120 Hz



Troubleshooting

Before you call for service, determine the symptoms and make a few simple checks as shown below.

Symptoms		Checks	
Picture	Sound	Checks	
Interference	Noisy Sound	Electrical Appliances Cars/Motorcycles Fluorescent light	
Normal Picture	No Sound	Volume (Check whether the mute function has been activated on the remote control.)	
? No Picture	No Sound	Not plugged into AC outlet Not switched on Contrast and Brightness/Volume setting (Check by pressing the Power Switch or stand-by button on the Remote Control.)	
? No Picture	Normal Sound	If a signal with a non-applicable colour system format, or frequency is input, only the input terminal indication is displayed.	
No Colour	Normal Sound	Colour controls set at minimum level. (see page 28, 29) Colour system (see page 33)	

Plasma Display panel

Symptoms	Check
Some parts of the screen do not light up	The plasma display panel is manufactured using an extremely high level of precision technology, however, sometimes some parts of the screen may be missing picture elements or have luminous spots. This is not a malfunction.
Panasonie	Do not allow a still picture to be displayed for an extended period, as this can cause a permanent after-image to remain on the Plasma Display. Examples of still pictures include logos, video games, computer images, teletext and images displayed in 4:3 mode.
After-images appear	Note: The permanent after-image on the Plasma Display resulting from fixed image use is not an operating defect and as such is not covered by the Warranty. This product is not designed to display fixed images for extended periods of time.
Whirring sounds can be heard from the display unit.	The display unit is fitted with a cooling fan to dissipate heat generated during normal use. The whirring sound is caused by rotation of the fan and is not a malfunction.

Specifications

		TH-42PHW5	TH-50PHW5
Ро	wer Source	220 - 240 V AC, 50/60 Hz	
Ро	wer Consumption		
	Normal use	375 W	495 W
;	Stand-by condition	3.0 W	3.0 W
ļ	Power off condition	1.7 W	1.7 W
Pla	sma Display panel	Drive method AC type	Drive method AC type
		42-inch, 16:9 aspect ratio	50-inch, 16:9 aspect ratio
	Contrast Ratio	30	00:1
Sc	reen size	920 mm (W) × 518 mm (H) × 1,056 mm (diagonal)	1,106 mm (W) \times 622 mm (H) \times 1,269 mm (diagonal)
		No. of pixels	No. of pixels
		786,432 (1,024 (W) × 768 (H)) [3,072 × 768 dots]	1,049,088 (1,366 (W) \times 768 (H)) [4,098 \times 768 dots]
Op	erating condition		
Ten	nperature	0 °C	- 40 °C
Hur	nidity	20 %	- 80 %
Ap	plicable signals		
_	Colour System	NTSC, PAL, PAL60, SECAM, Modified N	NTSC
	Scanning format	525i (480i), 625i (575i), 525p (480p), 625p (575p), 750p (720p), 1,125/60i, 50i,	
		24p, 24sF (1,080/60i, 50i, 24p, 24sF) ····	··· SMPTE 274M
	PC signals	XGA display	
		VGA, SVGA, XGA	
		SXGA, UXGA (compressed)	
		Horizontal scanning frequency 15.6 - 110 kHz	
		Vertical scanning frequency 48 - 120 Hz	
Co	nnection terminals		
	AV	Video IN (RCA)	1.0 Vp-p (75-ohm)
		S Video IN (MINI DIN 4PIN)	Y: 1 Vp-p (75-ohm), C: 0.286 Vp-p (75-ohm)
		AUDIO IN (RCA PIN JACK \times 2)	0.5 Vrms (high impedance)
	COMPONENT/RGB	Y/G (RCA)	1.0 Vp-p/composite (75-ohm)
			0.7 Vp-p/non-composite (75-ohm)
		Рв/В (RCA)	0.7 Vp-p (75-ohm)
		PR/R (RCA)	0.7 Vp-p (75-ohm)
		HD (RCA)	1.0 - 5.0 Vp-p (high impedance)
		VD (RCA)	1.0 - 5.0 Vp-p (high impedance)
		AUDIO IN (RCA PIN JACK × 2)	0.5 Vrms (high impedance)
	PC	(HIGH-DENSITY D-SUB 15PIN)	R,G,B/0.7 Vp-p (75-ohm)
			HD, VD/1.0 - 5.0 Vp-p (high impedance)
		AUDIO IN (M3 JACK)	0.5 Vrms (high impedance)
	SERIAL	AL EXTERNAL CONTROL TERMINAL (D-SUB 9PIN) RS-232C COMPATIBLE	
	SPEAKERS (6 Ω)	16W [8 W + 8 W] (10 % THD)	16W [8 W + 8 W] (10 % THD)
		For TY-SP42P5W-H only	For TY-SP50P5W-H only

	TH-42PHW5	TH-50PHW5
Accessories Supplied		
Remote Control Transmitter	EUR646525	
Batteries	2×1	R6 Size
Fixing bands	TMME187 × 2	
Ferrite core	J0KF00000018 × 1, J0KG00000054 × 2	
Optional Supplied		
Speakers	TY-SP42P5W-H	TY-SP50P5W-H
Pedestal	TY-S	ST10-H
Wall stand	TY-ST42PW1	
Mobile stand	TY-ST42PF3	
Wall-hanging bracket (vertical)	TY-WK42PV1	
Wall-hanging bracket (angled)	TY-WK42PR1	
Ceiling unit	TY-CE42PS1	
$\begin{array}{l} \textbf{Dimensions} \\ \textbf{(W} \times \textbf{H} \times \textbf{D)} \end{array}$	1,020 mm × 610 mm × 89 mm	1,210 mm × 724 mm × 98 mm
	1,020 mm 89 mm	724 mm — 724 mm
Mass (Weight)	approx. 30.0 kg net (main unit only) approx. 34.2 kg (with speakers)	approx. 43.0 kg net (main unit only) approx. 47.6 kg (with speakers)

- (1) Design and specifications are subject to change without notice. Weight and dimensions shown are approximate.
- (2) This equipment complies with the EMC standards listed below. EN55022, EN61000-3-2, EN61000-3-3, EN61000-6-2.

Customer' Record The model number and serial number of this product can be found on its back cover. You should note this serial number in the space provided below and retain this book, plus your purchase receipt, as a permanent record of your purchase to aid in identification in the event of theft or loss, and for Warranty Service purposes.			
Model Number	Serial Number		

Web Site: http://www.panasonic.co.jp/global/